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## NOTICE OF ALLOWANCE AND FEE(S) DUE

22913

7590

05/15/2009

Workman Nydegger 1000 Eagle Gate Tower 60 East South Temple Salt Lake City, UT 84111 EXAMINER
KIM, ELLEN E

PAPER NUMBER

ART UNIT

DATE MAILED: 05/15/2009

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/584.820	01/24/2008	Tsutomu Kitoh	14321.86	5579

TITLE OF INVENTION: OPTICAL FUNCTIONAL CIRCUIT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/17/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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naintenance fee notifica		N Fe	ote: A certificate of ree(s) Transmittal. This	nailing s certific paper,	can only be used for cate cannot be used fo such as an assignmen	correspondence address as ate "FEE ADDRESS" for domestic mailings of the or any other accompanying at or formal drawing, must	
Workman Nyd 1000 Eagle Gate 60 East South To	e Tower emple	7/2009		ve its own certificate  Cert hereby certify that thi ates Postal Service w dressed to the Mail hasmitted to the USPI	ificate o	of Mailing or Transn	nission deposited with the United class mail in an envelope above, or being facsimile te indicated below.
Salt Lake City, U	JT 84111						(Depositor's name)
							(Signature)
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KIM, EI		2874	385-014000				
Change of corresp Address form PTO/SI "Fee Address" ind PTO/SB/47; Rev 03-( Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Unl	ND RESIDENCE DATA less an assignce is ident h in 37 CFR 3.11. Comp	(I) the names of up or agents OR, alterna (2) the name of a sin registered attorney of 2 registered patent at listed, no name will of the PATENT (print or data will appear on the	gle firm (having as a r agent) and the name torneys or agents. If n e printed.  ype)  patent. If an assigne n assignment.	members of up no name	r a 2to to sis 3entified below, the do	cument has been filed for	
a. The following fee(s)  Issue Fee  Publication Fee (M	riate assignee category or are submitted: No small entity discount p # of Copies	b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  A check is enclosed.  Payment by credit card. Form PTO-2038 is attached.  The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number					
5. Change in Entity Sta	tus (from status indicated	d above)	1 3	•			7
**	s SMALL ENTITY state		b. Applicant is no le				
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This collection of inform in application. Confiden ubmitting the completed his form and/or suggesti	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this bu	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th	on is required to obtain on 1.14. This collection is a depending upon the inceeding the Chief Information Off	r retain a benefit by the estimated to take 12 m ividual case. Any concer, U.S. Patent and T	ne public ninutes t mments Fradema	c which is to file (and to complete, including on the amount of tim ark Office, U.S. Depar	by the USPTO to process) g gathering, preparing, and he you require to complete rtment of Commerce, P.O.

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1000 Eagle Gate T	ower	ART UNIT	PAPER NUMBER		
60 East South Temple Salt Lake City, UT 84111			2874		
San Lake City, O1	07111		DATE MAILED: 05/15/2009		

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/584,820	KITOH ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Ellen Kim	2874	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is	n this application. If not included unication will be mailed in due course. <b>THI</b> s	
1. This communication is responsive to <u>4/14/09</u> .			
2. ☑ The allowed claim(s) is/are <u>1 and 3-13</u> .			
<ol> <li>Acknowledgment is made of a claim for foreign priority unally All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> <li>2. ☐ Certified copies of the priority documents have</li> <li>3. ☒ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ol>	e been received. e been received in Applicat	on No	e
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements	
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>			
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") must</li> <li>(a) ☐ including changes required by the Notice of Draftspers</li> <li>1) ☐ hereto or 2) ☐ to Paper No./Mail Date</li> <li>(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deponsion of the depo</li></ol>	son's Patent Drawing Revie s Amendment / Comment on .84(c)) should be written on he header according to 37 C sit of BIOLOGICAL MAT	or in the Office action of the drawings in the front (not the back) of FR 1.121(d). TERIAL must be submitted. Note the	
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview 5 Paper No 7. ☐ Examiner's	nformal Patent Application Summary (PTO-413), /Mail Date s Amendment/Comment s Statement of Reasons for Allowance	

### **DETAILED ACTION**

This is responsive to Applicant's amendment filed on 4/14/09.

## Allowable Subject Matter

Claims 1, 3-13 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art does not disclose or suggest an optical functional circuit comprising all the specific elements with the specific combination including a wave propagation medium for converting an optical path of a leakage light that is not emitted from a predetermined output port of the circuit element so as to prevent the leakage light from being coupled to a different circuit element, wherein the wave propagation medium comprises an optical waveguide, which is provided with a clad layer formed on the substrate and a core embedded in the clad layer as set forth in claims 1; in order that among optical signals made incident from an the input port defined in the wave propagation medium, a stray light that is not emitted from a predetermined output port defined in the wave propagation medium is not coupled to a different output port, an optical axis of the input port and an optical axis of the predetermined output port are arranged so as not to be made coincident with each other as set forth in claim 4; positioning markers for defining input and output ports defined in the wave propagation medium are formed, and (a) the positioning markers, which are formed on members having optical parts optically coupled to the input and output ports and define light focusing positions of the optical parts, and (b) the positioning markers for defining the input and output ports are aligned, thereby coupling the input and output ports and the optical parts optically as set forth in

claim 6; and optical fibers for positioning, which are formed on members having optical parts optically coupled to the input and output ports and define light focusing positions of the optical parts, and the monitoring waveguides are aligned, thereby coupling the input and output ports and the optical parts optically as set forth in claim 7.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

In formation regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

For all official patent application related correspondence for organizations reporting to the Commissioner of Patents:

- Correspondence that is transmitted by facsimile must be directed to the central facsimile number, (703) 872-9306.

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Art Unit: 2874

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ellen Kim whose telephone number is (571) 272-2349. The examiner can normally be reached on Monday through Thursday.

/Ellen Kim/ Primary Examiner, Art Unit 2874 May 14, 2009/EK